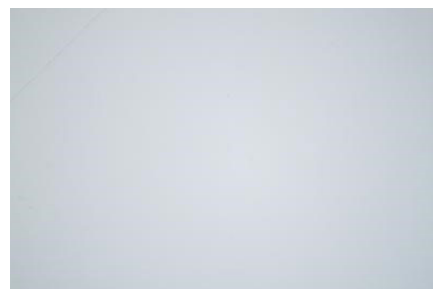
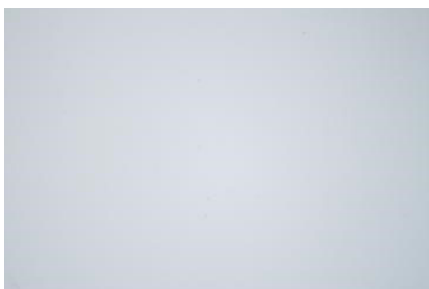
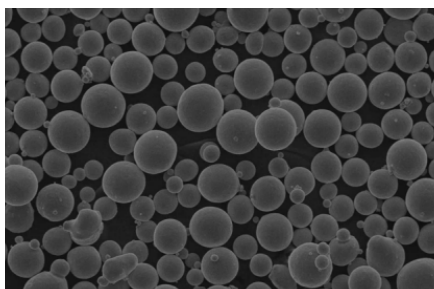


CoCrMo LPBF Powder for Dentistry

【 Anti oxidation, corrosion resistance 】

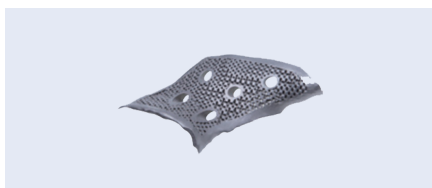
Material Introduction

CoCrMo is mainly strengthened by adding Mo element on the basis of Co and Cr elements, and has excellent corrosion resistance.

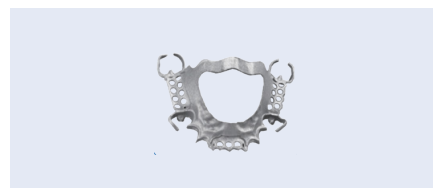


Applications

Mainly used in dental and orthopedic implants.



Orthopedic implant



Dental frameworks

Chemical Composition (wt.%)

Co	C	Cr	Mo	Si	Mn	Fe
Bal.	≤0.35	27.0–30.0	5.0–7.0	≤1	≤0.3	<0.75
O	N	H	/	/	/	/
<0.08	<0.15	<0.1	/	/	/	/

Physical Property

Granularity(μm)			Sphericity	Loose density (g/cm ³)	Tap density (g/cm ³)	Flowability (s/50g)
D10	D50	D90				
≥12	25–40	≤65	≥0.85	≥4.4	≥5	≤25

Mechanical Property

Heat-Treated		
Tensile Strength/MPa	Yield Strength/MPa	Elongation/%
≥1000	≥600	≥20.0



Advanced Powder Metallurgy Technology

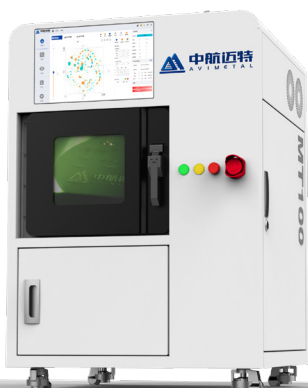
The powder metallurgy technology and equipment production line—
Vacuum Induction Gas Atomization (AVI-VIGA)



Adapting Devices

MT100 LPBF Equipment

Build size: $\phi 100\text{mm} \times 800\text{mm}$ (D $\times$ H)
Laser type: 300W Single



MT170 LPBF Equipment

Build size: $\phi 170\text{mm} \times 120\text{mm}$ (D $\times$ H)
Laser type: 500W Single/Dual Fiber Laser



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